



Imay 1743

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael S. Freund, et al. Art Unit: 1743
Serial No.: 09/963,788 Examiner: Yelena G. Gakh,
Filed : September 25, 2001 Ph.D.
Title : NANOPARTICLE-BASED SENSORS FOR DETECTING ANALYTES IN
FLUIDS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants call attention to the attached Information
Disclosure Statement and documents listed on form PTO-1449.

This filing is being made before the receipt of a first
Office action on the merits. No fee is required.

The documents are in the English language; hence no concise
explanation is necessary per Rule 98(a)(3).

Consideration of the foregoing and enclosures plus the
return of a copy of the enclosed form PTO-1449 with the

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR \$1.8(a) that this
correspondence is being deposited with the
United States Postal Service as first class mail
with sufficient postage on the date indicated
below and is addressed to the Commissioner for
Patents, P.O. Box 1450, Alexandria, VA 22313 -
1450.

MARCH 12, 2004
Date of Deposit

Susan Sesnovich
Signature

SUSAN SESNOVICH
Typed or Printed Name of Person Signing
Certificate

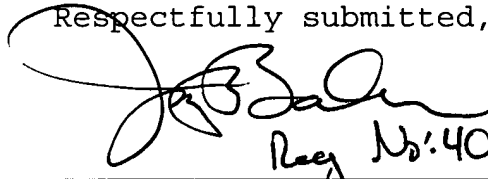
Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

Please apply any additional charges or credits to Deposit Account No. 06-1050.

Date: _____

3/12/04

Respectfully submitted,

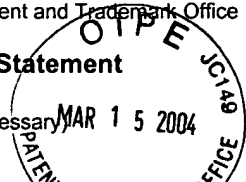


Scott C. Harris
Reg. No. 32,030

Reg No: 40,900

for

Fish & Richardson P.C.
USPTO Customer No. 20985
12390 El Camino Real
San Diego, CA 92130
Telephone: (858) 678-5070
Facsimile: (858) 678-5099

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office 	Attorney's Docket No. 06618-707001	Application No. 09/963,788
		Applicant Michael S. Freund, et al.	
		Filing Date September 25, 2001	Group Art Unit 1743

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	3,927,930	Dec 23, 1975	Goldberg, et al.			
	AB	4,453,126	June 5, 1984	Volgyesi			
	AC	4,644,101	Feb 17, 1987	Jin, et al.			
	AD	4,737,112	Apr 12, 1988	Jin, et al.			
	AE	4,923,739	May 8, 1990	Jin, et al.			
	AF	4,980,541	Dec 25, 1990	Shafer, et al.			
	AG	5,104,210	Apr 14, 1992	Tokas, et al.			
	AH	5,298,783	Mar 29, 1994	Wu			
	AI	5,429,975	July 4, 1995	Sheu, et al.			
	AJ	5,451,920	Sept 19, 1995	Hoffheins, et al.			
	AK	5,512,882	April 30, 1996	Stetter, et al.			
	AL	5,571,401	Nov 5, 1996	Lewis, et al.			
	AM	5,677,662	Oct 14, 1997	Bresolin, et al.			
	AN	5,698,771	Dec 16, 1997	Shields, et al.			
	AO	5,742,223	April 21, 1998	Simendinger, et al.			
	AP	5,922,537	July 13, 1999	Ewart, et al.			
	AQ	5,942,674	Aug 24, 1999	Logothetis, et al.			
	AR	6,002,817	Dec 14, 1999	Kopelman, et al.			
	AS	6,202,471	Mar 20, 2001	Yadav, et al.			
	AT						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AU	99/273557	June, 1999	WO				
	AV							
	AW							
	AX							

Examiner Signature	Date Considered
--------------------	-----------------

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 06618-707001	Application No. 09/963,788
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Michael S. Freund, et al.	
		Filing Date September 25, 2001	Group Art Unit 1743

(37 CFR §1.98(b))

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AY							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AZ	Longergan, et al., "Array-Based Vapor Sensing Using Chemically Sensitive, Carbon Black-Polymer Resistors", <u>Chem. Mater.</u> , Vol. 8, pp. 2298-2312, 1996
	AAA	Luedtke, et al., "Structure, Dynamics, and Thermodynamics of Passivated Gold Nanocrystallites and Their Assemblies", <u>The Journal of Physical Chemistry</u> , Vol. 100, No. 32, pp. 13323-13329, August 8, 1996
	ABB	Snow, et al., "Size-Induced Metal to Semiconductor Transition in a Stabilized Gold Cluster Ensemble", <u>Chemistry of Materials</u> , Vol. 10, No. 4, pp. 947-949, April, 1998
	ACC	Terrill, et al., "Monolayers in Three Dimensions: NMR, SAXS, Thermal, and Electron Hopping Studies of Alkanethiol Stabilized Gold Clusters", <u>J. Am. Chem. Soc.</u> , Vol. 117, pp. 12357-12548, 1995
	ADD	Wohltjen, et al., "Colloidal Metal-Insulator-Metal Ensemble Chemiresistor Sensor", <u>Analytical Chemistry</u> , Vol. 70, No. 14, pp. 2856-2859, 1998
	AEE	Zeiri, et al., "Studies of Silver Organosols: Preparation, Characterization, and Cyanide-Induced Aggregation", <u>J. Phys. Chem.</u> , Vol. 96, pp. 5908-5917, 1992
	AFF	Grate, et al., "Role of Selective Sorption in Chemiresistor Sensors for Organophosphorus Detection", <u>Analytical Chemistry</u> , Vol. 62, pp. 1927-1934, September, 1990

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	